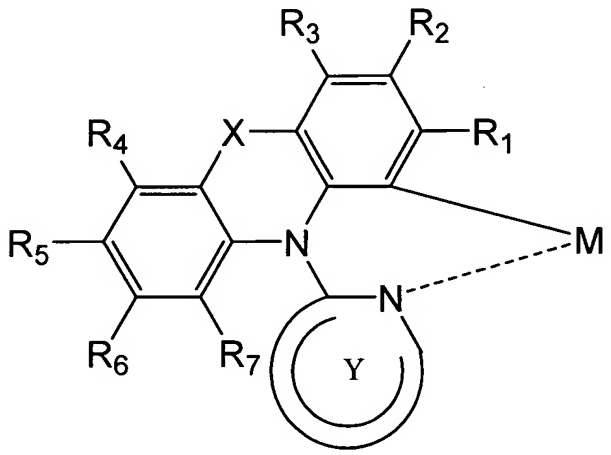
IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A light emission material comprising:

an organometal complex having a structure represented by the ~~following~~ general formula (1)~~.~~ :



(1)

~~(~~ wherein R1 to R7 respectively represent any one of a hydrogen atom, a halogen atom, a lower alkyl group, an alkoxyl group, an acyl group, a nitro group, a cyano group, an amino group, a dialkylamino group, a diarylamino group, a vinyl group, an aryl group, or a heterocyclic residue;

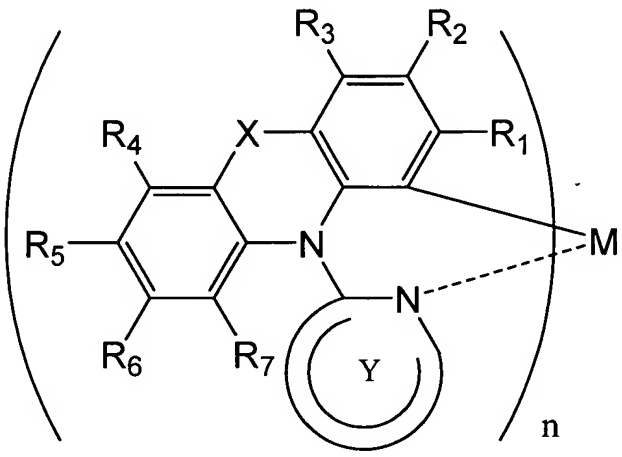
wherein X represents an oxygen atom or a sulfur atom;

wherein Y represents a heterocyclic residue containing a nitrogen atom as a heteroatom; and

wherein M represents a group IX atom or a group X atom.~~)~~

2. (Currently Amended) A light emission material comprising:

an organometal complex having a structure represented by the ~~following~~ general formula (2)~~.~~ :



(2)

~~(~~ wherein R1 to R7 respectively represent any one of a hydrogen atom, a halogen atom, a lower alkyl group, an alkoxy group, an acyl group, a nitro group, a cyano group, an amino group, a dialkylamino group, a diarylamino group, a vinyl group, an aryl group, or a heterocyclic residue;

wherein X represents an oxygen atom or a sulfur atom;

wherein Y represents a heterocyclic residue containing a nitrogen atom as a heteroatom;

wherein M represents a group IX atom or a group X atom, and n = 2 when the M is the group IX atom, while n = 1 when the M is the group X atom; and

wherein L represents any one of a monoanionic bidentate chelate ligand having a beta-diketone structure, a monoanionic bidentate chelate ligand having a carboxyl group, or a monoanionic bidentate chelate ligand having a phenolic hydroxyl group.~~)~~

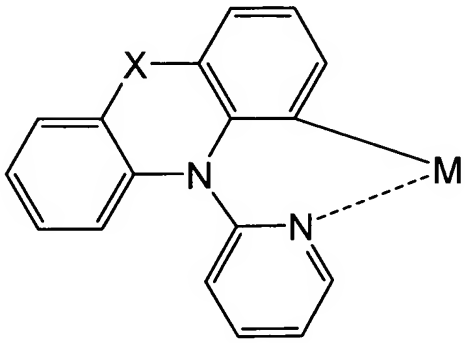
3. (Currently Amended) The light emission material according to claim 1 ~~or 2~~,

~~characterized in that~~ wherein the Y is a heterocyclic residue comprising a five-membered ring or a six-membered ring.

4. (Currently Amended) The light emission material according to claim 1 ~~or 2~~, ~~characterized in that~~ wherein the Y is a 2-pyridyl group.

5. (Currently Amended) A light emission material comprising:

an organometal complex having a structure represented by the ~~following~~ general formula (3)~~.~~ :



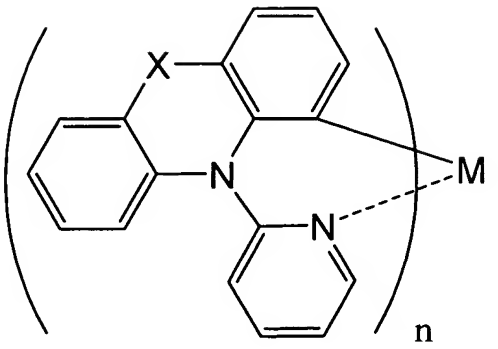
(3)

~~(~~ wherein X represents an oxygen atom or a sulfur atom; and

wherein M represents a group IX atom or a group X atom.~~)~~

6. (Currently Amended) A light emission material comprising:

an organometal complex having a structure represented by the ~~following~~ general formula (4)~~.~~ :



(4)

(wherein X represents an oxygen atom or a sulfur atom;

wherein M represents a group IX atom or a group X atom, and n = 2 when the M is the group IX atom, while n = 1 when the M is the group X atom; and

wherein L represents any one of a monoanionic bidentate chelate ligand having a beta-diketone structure, a monoanionic bidentate chelate ligand having a carboxyl group, or a monoanionic bidentate chelate ligand having a phenolic hydroxyl group.)

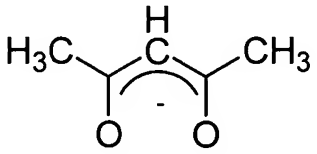
7. (Currently Amended) The light emission material according to claim 1, ~~characterized in that~~ wherein the M is iridium or platinum.

8. (Currently Amended) The light emission material according to claim 2, ~~characterized in that~~ wherein the M is iridium or platinum.

9. (Currently Amended) The light emission material according to claim 5, ~~characterized in that~~ wherein the M is iridium or platinum.

10. (Currently Amended) The light emission material according to claim 6, ~~characterized in that~~ wherein the M is iridium or platinum.

11. (Currently Amended) The ~~organic~~ light emission material according to claim 2, ~~characterized in that~~ wherein the L is any one of monoanionic bidentate chelate ligands represented by the ~~following~~ structural formulas (5) to (11)~~.~~



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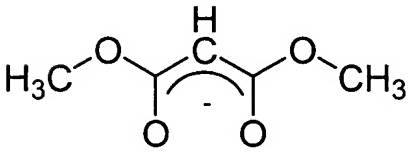

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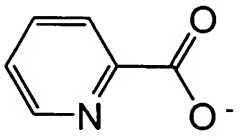

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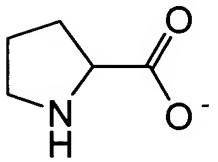

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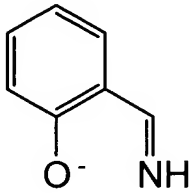

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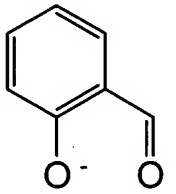

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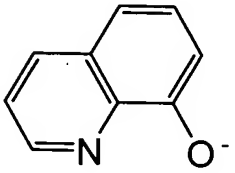
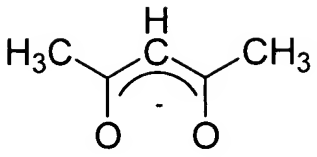


(11)

12. (Currently Amended) The ~~organic~~ light emission material according to claim 6, ~~characterized in that~~ wherein the L is any one of monoanionic bidentate chelate ligands represented by the ~~following~~ structural formulas (5) to (11)~~.~~



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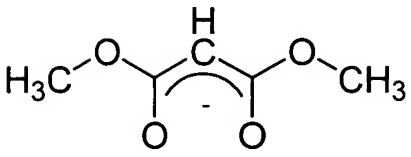

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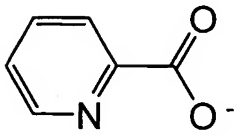

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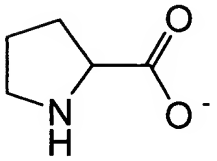

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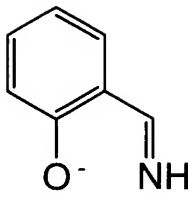

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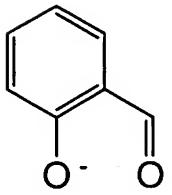

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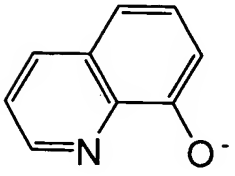


(11)

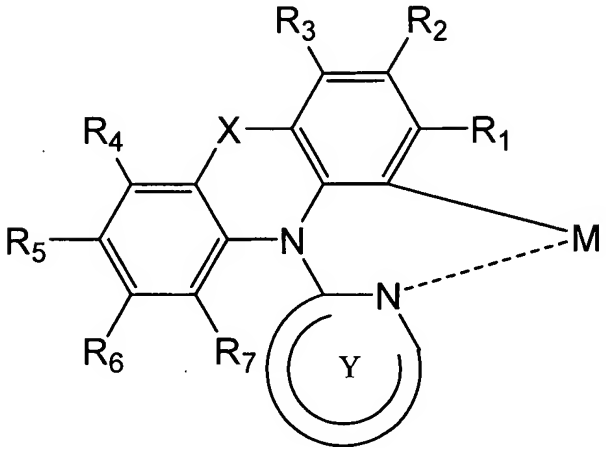
13. (Currently Amended) ~~An electronic appliance having an electroluminescence element using the~~ The light emission material according to ~~any one of~~ claims 1~~, 2, 5, and 6.~~ ,

wherein an electroluminescence element comprises the light emission material; and

wherein the electroluminescence element is incorporated into the electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle type display, a navigation system, an audio reproduction apparatus, a notebook type personal computer, a game machine, a personal digital assistant and an image reproduction apparatus having a recording medium.

14. (Currently Amended) A light emission material comprising:

an organometal complex having a structure represented by the ~~following~~ general formula (1)~~.~~ :



(1)

~~(~~ wherein each of pairs of R1 and R2, R2 and R3, R4 and R5, and R5 and R6 is combined into an aromatic ring;

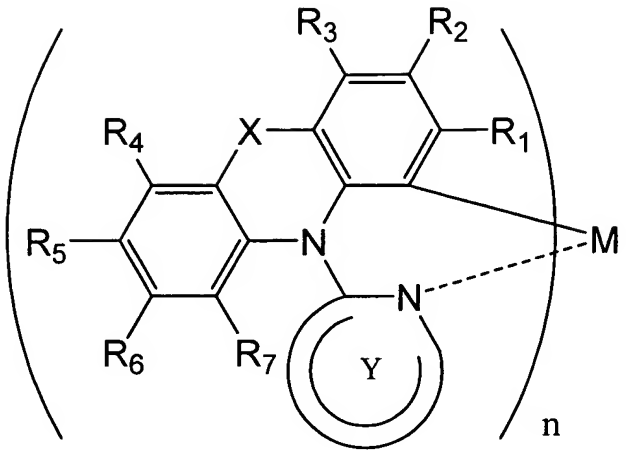
wherein X represents an oxygen atom or a sulfur atom;

wherein Y represents a heterocyclic residue containing a nitrogen atom as a heteroatom; and

wherein M represents a group IX atom or a group X atom.~~)~~

15. (Currently Amended) A light emission material comprising:

an organometal complex having a structure represented by the ~~following~~ general formula (2)~~.~~ :



(2)

(wherein each of pairs of R1 and R2, R2 and R3, R4 and R5, and R5 and R6 is combined into an aromatic ring;

wherein X represents an oxygen atom or a sulfur atom;

wherein Y represents a heterocyclic residue containing a nitrogen atom as a heteroatom;

wherein M represents a group IX atom or a group X atom, and n = 2 when the M is the group IX atom, while n = 1 when the M is the group X atom; and

wherein L represents any one of a monoanionic bidentate chelate ligand having a beta-diketone structure, a monoanionic bidentate chelate ligand having a carboxyl group, or a monoanionic bidentate chelate ligand having a phenolic hydroxyl group.)

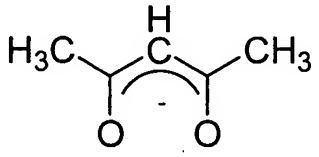
16. (Currently Amended) The light emission material according to claim 14 ~~or 15~~, ~~characterized in that~~ wherein the Y is a heterocyclic residue comprising a five-membered ring or a six-membered ring.

17. (Currently Amended) The light emission material according to claim 14 ~~or 15~~, ~~characterized in that~~ wherein the Y is a 2-pyridyl group.

18. (Currently Amended) The light emission material according to claim 14, ~~characterized in that~~ wherein the M is an iridium atom or a platinum atom.

19. (Currently Amended) The light emission material according to claim 15, ~~characterized in that~~ wherein the M is an iridium atom or a platinum atom.

20. (Currently Amended) The ~~organic~~ light emission material according to claim 15, ~~characterized in that~~ wherein the L is any one of monoanionic bidentate chelate ligands represented by the ~~following~~ structural formulas (5) to (11).



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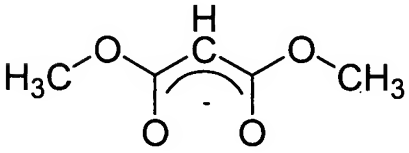

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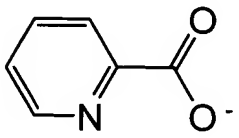

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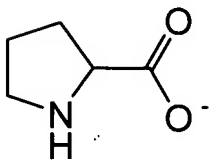

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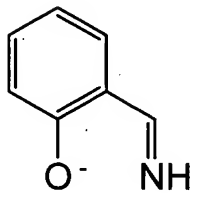

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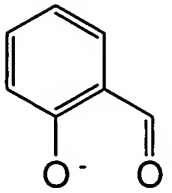

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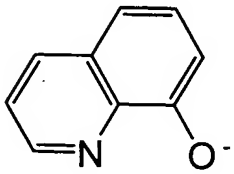

(11)

21. (Currently Amended) ~~An electronic appliance having an electroluminescence element using the~~ The light emission material according to claim 14 ~~or 15.~~ ,

wherein an electroluminescence element comprises the light emission material; and

wherein the electroluminescence element is incorporated into the electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle type display, a navigation system, an audio reproduction apparatus, a notebook type personal computer, a game machine, a personal digital assistant and an image reproduction apparatus having a recording medium.

22. (New) The light emission material according to claim 2,

wherein the Y is a heterocyclic residue comprising a five-membered ring or a six-membered ring.

23. (New) The light emission material according to claim 2,

wherein the Y is a 2-pyridyl group.

24. (New) The light emission material according to claim 2,

wherein an electroluminescence element comprises the light emission material; and

wherein the electroluminescence element is incorporated into the electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle type display, a navigation system, an audio reproduction apparatus, a notebook type personal computer, a game machine, a personal digital assistant and an image reproduction apparatus having a recording medium.

25. (New) The light emission material according to claim 5,

wherein an electroluminescence element comprises the light emission material; and

wherein the electroluminescence element is incorporated into the electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle type display, a navigation system, an audio reproduction apparatus, a notebook type personal computer, a game machine, a personal digital assistant and an image reproduction apparatus having a recording medium.

26. (New) The light emission material according to claim 6,

wherein an electroluminescence element comprises the light emission material; and

wherein the electroluminescence element is incorporated into the electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle type display, a navigation system, an audio reproduction apparatus, a notebook type personal computer, a game machine, a personal digital assistant and an image reproduction apparatus having a recording medium.

27. (New) The light emission material according to claim 15,

wherein the Y is a heterocyclic residue comprising a five-membered ring or a six-membered ring.

28. (New) The light emission material according to claim 15,

wherein the Y is a 2-pyridyl group.

29. (New) The light emission material according to claim 15,

wherein an electroluminescence element comprises the light emission material; and

wherein the electroluminescence element is incorporated into the electronic appliance selected from the group consisting of a video camera, a digital camera, a goggle type display, a navigation system, an audio reproduction apparatus, a notebook type personal computer, a game machine, a personal digital assistant and an image reproduction apparatus having a recording medium.